

**GOWANUS CANAL SUPERFUND SITE  
RTA1 REMEDIAL CONSTRUCTION  
Water Quality Monitoring Weekly Data Summary**

**PERIOD: September 13 - September 17, 2021**

**Date of Report: September 22, 2021**

## **Report Contents**

- Scope of Monitoring
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*Prepared by*

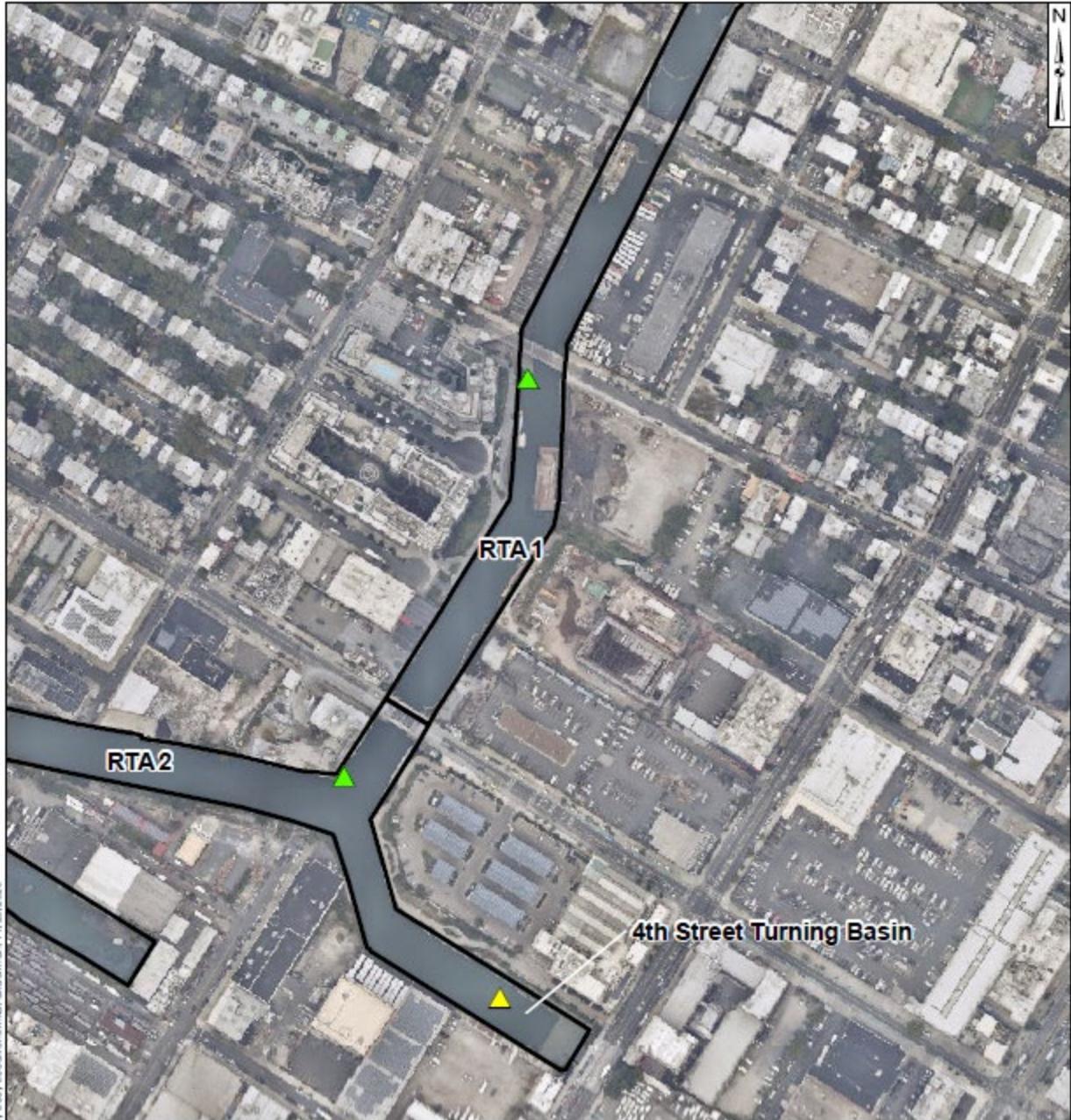
**B&B Engineers & Geologists**   
of new york, p.c.

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Project Number JR0289A

## 1. SCOPE OF MONITORING

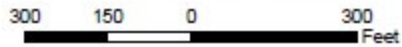
The following report summarizes water quality monitoring data collected during the week of September 13, 2021. In accordance with the Water Quality Monitoring Plan for In-waterway Construction Activities (WQMP) three turbidity buoys were deployed to monitor turbidity at the start of dredging between Carroll Street Bridge and 3<sup>rd</sup> Street Bridge. One turbidity buoy was deployed just south of the 3<sup>rd</sup> Street Bridge outside of the air curtain and traditional turbidity curtain. This buoy is referred to as the 3<sup>rd</sup> Street Sentinel Buoy. A second turbidity buoy was deployed just south of the Carroll Street Bridge and is referred to as the Carroll Street Sentinel Buoy. The third turbidity buoy was deployed in the Fourth Street Turning Basin in order to monitor background turbidity unaffected by in-water construction activities. This turbidity buoy is referred to as the Ambient Buoy. Prior to dredging north of the Union Street Bridge, on January 22, 2021 a fourth turbidity buoy was deployed just south of the Union Street Bridge and is referred to as the Union Street Sentinel Buoy. This fourth turbidity buoy was removed prior to the start of pipe pile installation. A map indicating the current approximate locations of the turbidity buoys is provided in **Figure 1**. Each turbidity buoy was equipped with a YSI EXO3 water quality meter with optical turbidity sensor. The buoys were field calibrated and programmed such that readings were collected every 15 minutes. After each measurement, the turbidity data were transmitted to a File Transfer Portal (FTP) site via telemetry. This report presents a summary of turbidity data collected from the ambient and sentinel buoys between 7 AM and 6 PM each day during the week of September 13. Daily turbidity data tables are provided in **Appendix A**. No handheld measurements were collected during this reporting period. Visual observations of turbidity and sheen are summarized in Section 4.



J:\Users\erikng\Documents\Projects\Gowanus Canal\GIS\MapDocs\Turbidity Buoy Locations.mxd; okalunm01; 1/12/2021 02:09

**Legend**

- ▲ Ambient Buoy
- ▲ Sentinel Buoy
- RTA Boundary



**Turbidity Buoy Locations**

Gowanus Canal, Brooklyn, NY

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Kennesaw, GA

February 2021

Figure

**1**

## 2. REPORT OF EXCEEDANCES

No exceedances of the action criteria or trigger criteria were observed during the reporting period.

- **Trigger criterion** – Any of the following:
  - The rolling average of the relevant sentinel buoy turbidity measurements over a one-hour period exceeds the rolling average of the ambient buoy turbidity measurements by 20 NTU excluding any eliminated outlier measurements and in-waterway construction activities cannot be immediately excluded as the source following consultation with EPA; or
  - Either an oil sheen or a turbidity plume is visually observed at the relevant sentinel buoy and in-waterway construction activities are readily identified as the source.
- **Action criterion** – Any of the following:
  - The rolling average of the turbidity measurements of the sentinel buoy outside of RTA1 over a one-hour period exceeds the rolling average of the ambient buoy turbidity measurements by 40 NTU excluding any eliminated outlier measurements and in-waterway construction activities cannot be immediately excluded as the source following consultation with EPA; or
  - Either an oil sheen or a turbidity plume is visually observed outside of RTA1 and any deployed engineering controls and in-waterway construction activities are readily identified as the source.

An outlier is defined as a reading that is outside the range of 50 to 200 percent of the average of the three previous readings. In addition, to be considered an outlier, the subsequent reading must return to a range of 75 to 133 percent of the average of the three readings preceding the outlier.

### 2.1 Response to Criteria Exceedances

The trigger level criterion serves to provide early notification to the contractor of construction activities that may lead to an exceedance of the action level criterion. In the event of an exceedance to the trigger criterion, the contractor will not be stopped, and the contractor will be directed to investigate the source of the exceedance and evaluate Best Management Practices (BMPs). In the event of an exceedance to the action level criterion, in-waterway construction activities may be slowed or temporarily suspended as necessary while the contractor investigates the source of the exceedance and appropriate mitigation and corrective measures are determined. A more detailed description of responses to exceedances of the trigger and action level criteria is provided in Section 4.2 of the WQMP.

No exceedances to the quantitative trigger or action level criteria were observed during this reporting period. No exceedances to the qualitative trigger or action criteria were observed during this reporting period.

### 3. TURBIDITY BUOY DATA

The following section provides turbidity data for the sentinel turbidity buoys from 7 AM to 6 PM from September 6 - September 10, 2021. No exceedances of the action or trigger level criteria occurred during this reporting period. The Third Street Sentinel Buoy requires re-calibration. Although the Third Street Buoy is incorrectly reading negative turbidity values, no spike in turbidity at the Third Street Buoy has been detected. Turbidity data from the Carroll Street Buoy was discarded for the reporting period due to debris and sediment obstructing the sensor causing the sensor to misread.

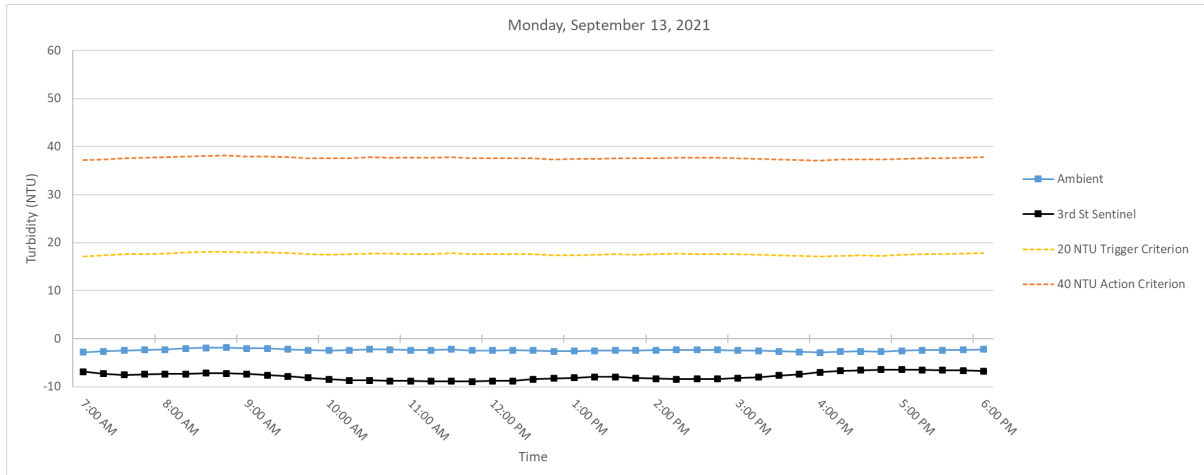
Section 2.1 contains further information on these exceedances. **Table 1** below provides a summary of the turbidity data for the reporting period.

Date	Average Rolling Average Difference (NTU)	Maximum Rolling Average Difference (NTU)
	3rd St - Ambient	3rd St - Ambient
Monday, September 13, 2021	-5.38	-3.73
Tuesday, September 14, 2021	-5.51	-3.92
Wednesday, September 15, 2021	-6.13	-4.95
Thursday, September 16, 2021	-5.87	-5.48
Friday, September 17, 2021	-6.05	-5.62

**Table 1.** Daily average and maximum differences between the rolling average turbidity readings from RTA1 sentinel buoys and the ambient buoy between 7 AM and 6 PM

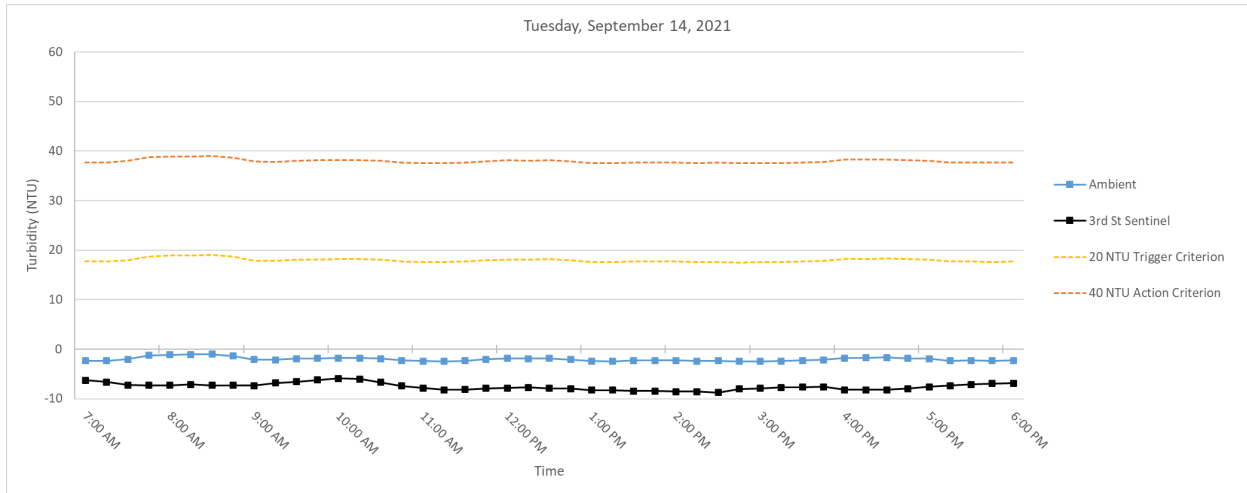
#### 3.1 Monday, September 13, 2021

**Figure 2.** Hourly rolling average turbidity readings on Monday, August 30, 2021 from 7 AM to 6 PM.



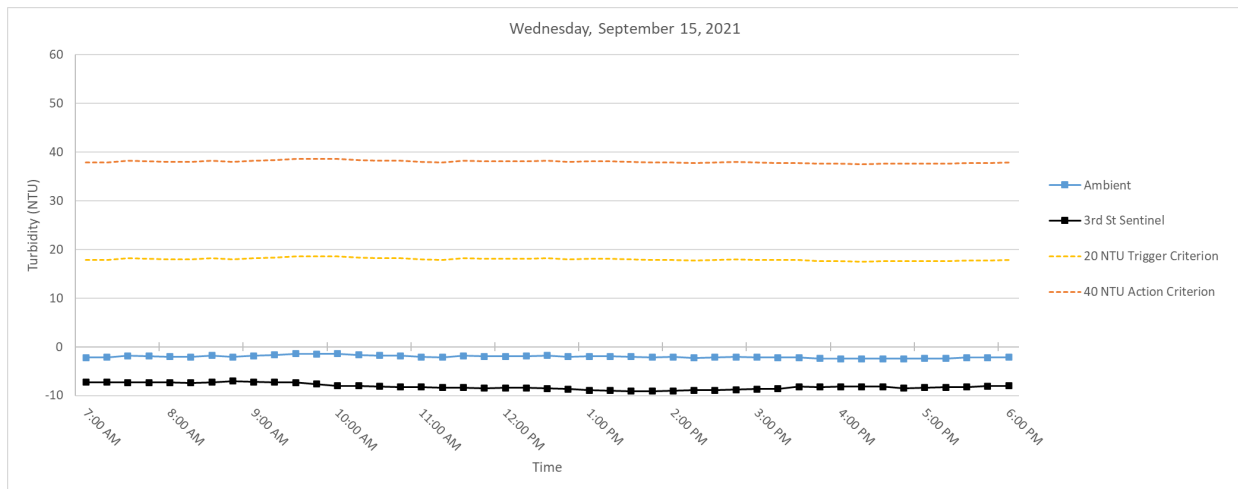
### 3.2 Tuesday, September 14, 2021

**Figure 3.** Hourly rolling average turbidity readings on Tuesday, August 31, 2021 from 7 AM to 6 PM.



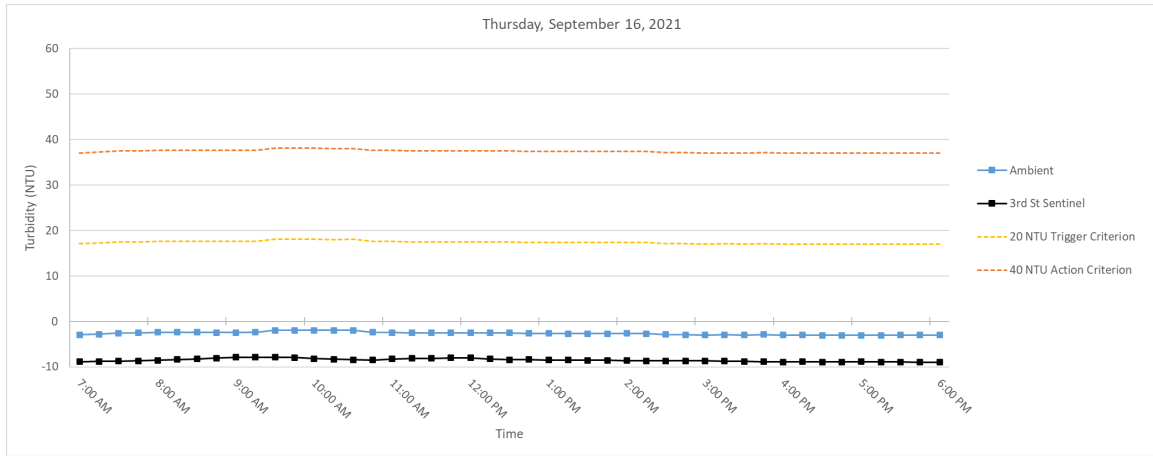
### 3.3 Wednesday, September 15, 2021

**Figure 4.** Hourly rolling average turbidity readings on Wednesday, September 1, 2021 from 7 AM to 6 PM.



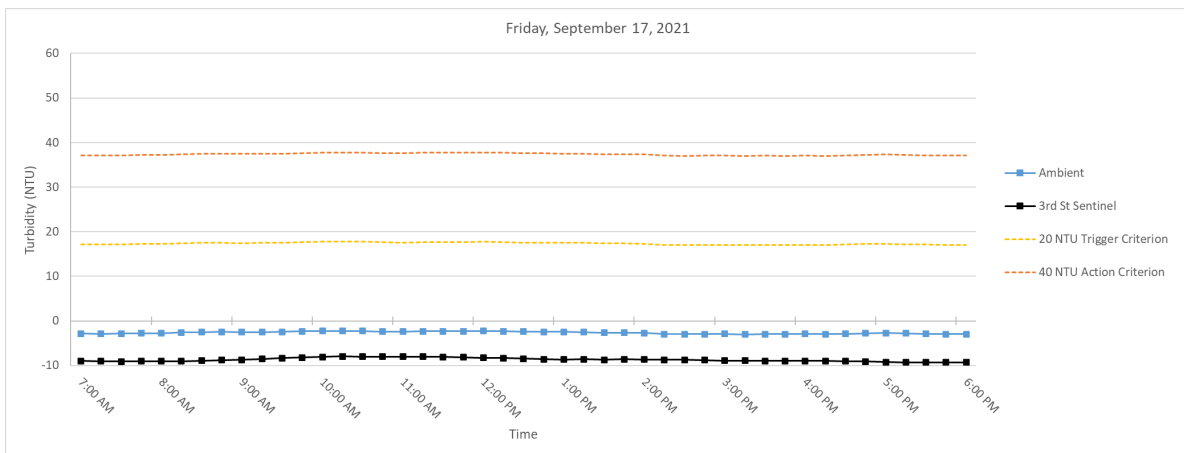
### 3.4 Thursday, September 16, 2021

**Figure 5.** Hourly rolling average turbidity readings on Thursday, September 2, 2021 from 7 AM to 6 PM.



### 3.5 Friday, September 17, 2021

**Figure 6.** Hourly rolling average turbidity readings on Friday, September 3, 2021 from 7 AM to 6 PM.



## **SUMMARY OF VISUAL OBSERVATIONS**

No sheen above background conditions attributable to in-waterway construction activities was observed during this reporting period.



**APPENDIX A**  
**Turbidity Data Tables**

## Monday, September 13, 2021

Time	Turbidity (NTU)		Rolling Average Turbidity (NTU)		Difference (NTU)
	Ambient	3rd Street	Ambient	3rd Street	3rd St - Ambient
7:00:00	-2.87	-7.48	-2.84	-6.86	-4.03
7:15:00	-1.62	-8.1	-2.64	-7.28	-4.64
7:30:00	-2.32	-7.22	-2.45	-7.53	-5.08
7:45:00	-1.88	-6.91	-2.37	-7.44	-5.07
8:00:00	-2.59	-7.15	-2.26	-7.37	-5.12
8:15:00	-1.73	-7.33	-2.03	-7.34	-5.31
8:30:00	-1.18	-7.39	-1.94	-7.20	-5.26
8:45:00	-1.94	-7.34	-1.86	-7.22	-5.36
9:00:00	-2.8	-7.5	-2.05	-7.34	-5.29
9:15:00	-2.53	-8.51	-2.04	-7.61	-5.58
9:30:00	-2.54	-8.6	-2.20	-7.87	-5.67
9:45:00	-2.29	-8.93	-2.42	-8.18	-5.76
10:00:00	-2.28	-8.77	-2.49	-8.46	-5.97
10:15:00	-2.38	-8.78	-2.40	-8.72	-6.31
10:30:00	-1.7	-8.55	-2.24	-8.73	-6.49
10:45:00	-2.86	-9.16	-2.30	-8.84	-6.54
11:00:00	-2.66	-8.85	-2.38	-8.82	-6.45
11:15:00	-2.3	-9.19	-2.38	-8.91	-6.53
11:30:00	-1.49	-8.63	-2.20	-8.88	-6.67
11:45:00	-2.92	-8.72	-2.45	-8.91	-6.46
12:00:00	-2.88	-8.85	-2.45	-8.85	-6.40
12:15:00	-2.5	-8.56	-2.42	-8.79	-6.37
12:30:00	-2.42	-7.67	-2.44	-8.49	-6.04
12:45:00	-2.57	-7.56	-2.66	-8.27	-5.61
13:00:00	-2.66	-8.03	-2.61	-8.13	-5.53
13:15:00	-2.4	-8.09	-2.51	-7.98	-5.47
13:30:00	-2.25	-8.62	-2.46	-7.99	-5.53
13:45:00	-2.49	-8.8	-2.47	-8.22	-5.75
14:00:00	-2.23	-8.19	-2.41	-8.35	-5.94
14:15:00	-2.23	-8.65	-2.32	-8.47	-6.15
14:30:00	-2.56	-7.86	-2.35	-8.42	-6.07
14:45:00	-2.31	-8.57	-2.36	-8.41	-6.05
15:00:00	-2.93	-7.76	-2.45	-8.21	-5.75
15:15:00	-2.67	-7.18	-2.54	-8.00	-5.46
15:30:00	-2.72	-6.94	-2.64	-7.66	-5.02
15:45:00	-3.18	-6.65	-2.76	-7.42	-4.66
16:00:00	-2.91	-6.46	-2.88	-7.00	-4.12
16:15:00	-2.08	-6.37	-2.71	-6.72	-4.01
16:30:00	-2.48	-6.63	-2.67	-6.61	-3.94
16:45:00	-2.95	-6.15	-2.72	-6.45	-3.73
17:00:00	-2.11	-6.65	-2.51	-6.45	-3.95
17:15:00	-2.5	-6.72	-2.42	-6.50	-4.08
17:30:00	-1.99	-6.67	-2.41	-6.56	-4.16
17:45:00	-2.09	-6.87	-2.33	-6.61	-4.28
18:00:00	-2.37	-6.97	-2.21	-6.78	-4.56

## Tuesday, September 14, 2021

Time	Turbidity (NTU)		Rolling Average Turbidity (NTU)		Difference (NTU)
	Ambient	3rd Street	Ambient	3rd Street	3rd St - Ambient
7:00:00	-2.59	-7.02	-2.33	-6.25	-3.92
7:15:00	-2.49	-7.5	-2.33	-6.66	-4.34
7:30:00	-0.81	-7.83	-2.02	-7.26	-5.24
7:45:00	1.77	-6.9	-1.27	-7.28	-6.01
8:00:00	-1.52	-7.43	-1.13	-7.34	-6.21
8:15:00	-2.42	-6.04	-1.09	-7.14	-6.05
8:30:00	-1.96	-8.19	-0.99	-7.28	-6.29
8:45:00	-2.68	-7.89	-1.36	-7.29	-5.93
9:00:00	-2.06	-7.27	-2.13	-7.36	-5.24
9:15:00	-1.66	-4.79	-2.16	-6.84	-4.68
9:30:00	-1.29	-4.81	-1.93	-6.59	-4.66
9:45:00	-1.64	-6.4	-1.87	-6.23	-4.37
10:00:00	-2.49	-6.35	-1.83	-5.92	-4.10
10:15:00	-2.05	-7.75	-1.83	-6.02	-4.19
10:30:00	-2.25	-8.21	-1.94	-6.70	-4.76
10:45:00	-2.96	-8.37	-2.28	-7.42	-5.14
11:00:00	-2.17	-8.44	-2.38	-7.82	-5.44
11:15:00	-2.88	-8.19	-2.46	-8.19	-5.73
11:30:00	-1.36	-7.5	-2.32	-8.14	-5.82
11:45:00	-0.76	-7.08	-2.03	-7.92	-5.89
12:00:00	-2.28	-8.02	-1.89	-7.85	-5.96
12:15:00	-2.31	-7.91	-1.92	-7.74	-5.82
12:30:00	-2.55	-8.93	-1.85	-7.89	-6.04
12:45:00	-2.48	-8.07	-2.08	-8.00	-5.93
13:00:00	--	-8.52	-2.41	-8.29	-5.89
13:15:00	--	-7.89	-2.45	-8.26	-5.82
13:30:00	-1.82	-8.83	-2.28	-8.45	-6.16
13:45:00	-2.55	-8.89	-2.28	-8.44	-6.16
14:00:00	-2.46	-8.82	-2.28	-8.59	-6.31
14:15:00	-2.72	-8.59	-2.39	-8.60	-6.22
14:30:00	-2.28	-8.62	-2.37	-8.75	-6.38
14:45:00	-2.43	-5.31	-2.49	-8.05	-5.56
15:00:00	-2.4	-8.12	-2.46	-7.89	-5.43
15:15:00	-2.34	-8.08	-2.43	-7.74	-5.31
15:30:00	-1.87	-8.32	-2.26	-7.69	-5.43
15:45:00	-1.91	-8.35	-2.19	-7.64	-5.45
16:00:00	-0.34	-8.23	-1.77	-8.22	-6.45
16:15:00	-2.3	-8.23	-1.75	-8.24	-6.49
16:30:00	-2.06	-7.79	-1.70	-8.18	-6.49
16:45:00	-2.6	-7.17	-1.84	-7.95	-6.11
17:00:00	-2.4	-6.58	-1.94	-7.60	-5.66
17:15:00	-2.33	-7.08	-2.34	-7.37	-5.03
17:30:00	-2.07	-7.01	-2.29	-7.13	-4.83
17:45:00	-2.42	-7.02	-2.36	-6.97	-4.61
18:00:00	-2.13	-6.83	-2.27	-6.90	-4.63

## Wednesday, September 15, 2021

Time	Turbidity (NTU)		Rolling Average Turbidity (NTU)		Difference (NTU)
	Ambient	3rd Street	Ambient	3rd Street	3rd St - Ambient
7:00:00	-2.33	-7.1	-2.17	-7.29	-5.12
7:15:00	-2.39	-7.37	-2.12	-7.24	-5.12
7:30:00	-0.78	-7.28	-1.80	-7.29	-5.49
7:45:00	-2.28	-7.39	-1.88	-7.33	-5.46
8:00:00	-2.36	-7.38	-2.03	-7.30	-5.28
8:15:00	-2.46	-7.46	-2.05	-7.38	-5.32
8:30:00	-0.98	-6.67	-1.77	-7.24	-5.46
8:45:00	-2.32	-6.27	-2.08	-7.03	-4.95
9:00:00	-0.95	-8.33	-1.81	-7.22	-5.41
9:15:00	-1.41	-7.46	-1.62	-7.24	-5.61
9:30:00	-1.47	-7.86	-1.43	-7.32	-5.89
9:45:00	-1.23	-8.23	-1.48	-7.63	-6.15
10:00:00	-2.05	-8.1	-1.42	-8.00	-6.57
10:15:00	-2.13	-8.26	-1.66	-7.98	-6.32
10:30:00	-1.85	-8.03	-1.75	-8.10	-6.35
10:45:00	-1.95	-8.55	-1.84	-8.23	-6.39
11:00:00	-2.37	-8.19	-2.07	-8.23	-6.16
11:15:00	-2.34	-8.65	-2.13	-8.34	-6.21
11:30:00	-0.68	-8.44	-1.84	-8.37	-6.53
11:45:00	-2.38	-8.49	-1.94	-8.46	-6.52
12:00:00	-1.93	-8.45	-1.94	-8.44	-6.50
12:15:00	-2.05	-8.21	-1.88	-8.45	-6.57
12:30:00	-1.67	-9.25	-1.74	-8.57	-6.83
12:45:00	-2.1	-9.06	-2.03	-8.69	-6.67
13:00:00	-1.9	-9.55	-1.93	-8.90	-6.97
13:15:00	-2.04	-8.7	-1.95	-8.95	-7.00
13:30:00	-2.46	-8.97	-2.03	-9.11	-7.07
13:45:00	-2.04	-9.11	-2.11	-9.08	-6.97
14:00:00	-2.08	-8.88	-2.10	-9.04	-6.94
14:15:00	-2.54	-9.01	-2.23	-8.93	-6.70
14:30:00	-1.5	-8.51	-2.12	-8.90	-6.77
14:45:00	-2.11	-8.48	-2.05	-8.80	-6.74
15:00:00	-2.44	-8.53	-2.13	-8.68	-6.55
15:15:00	-2.48	-8.6	-2.21	-8.63	-6.41
15:30:00	-2.55	-6.7	-2.22	-8.16	-5.95
15:45:00	-2.38	-8.8	-2.39	-8.22	-5.83
16:00:00	-2.28	-8.34	-2.43	-8.19	-5.77
16:15:00	-2.65	-8.43	-2.47	-8.17	-5.71
16:30:00	-2.27	-8.56	-2.43	-8.17	-5.74
16:45:00	-2.55	-8.22	-2.43	-8.47	-6.04
17:00:00	-2.26	-8.23	-2.40	-8.36	-5.95
17:15:00	-2.06	-8.12	-2.36	-8.31	-5.95
17:30:00	-1.99	-8.01	-2.23	-8.23	-6.00
17:45:00	-2.26	-7.75	-2.22	-8.07	-5.84
18:00:00	-2.2	-7.88	-2.15	-8.00	-5.84

## Thursday, September 16, 2021

Time	Turbidity (NTU)		Rolling Average Turbidity (NTU)		Difference (NTU)
	Ambient	3rd Street	Ambient	3rd Street	3rd St - Ambient
7:00:00	-2.57	-8.71	-2.95	-8.83	-5.88
7:15:00	-2.21	-8.8	-2.80	-8.79	-5.99
7:30:00	-2.24	-8.48	-2.56	-8.72	-6.16
7:45:00	-2.3	-8.64	-2.48	-8.68	-6.20
8:00:00	-2.67	-8.18	-2.40	-8.56	-6.16
8:15:00	-2.41	-7.77	-2.37	-8.37	-6.01
8:30:00	-2.34	-8.04	-2.39	-8.22	-5.83
8:45:00	-2.33	-7.52	-2.41	-8.03	-5.62
9:00:00	-2.3	-7.94	-2.41	-7.89	-5.48
9:15:00	-2.52	-8.05	-2.38	-7.86	-5.48
9:30:00	-0.28	-7.93	-1.95	-7.90	-5.94
9:45:00	-2.26	-8.34	-1.94	-7.96	-6.02
10:00:00	-2.43	-8.6	-1.96	-8.17	-6.21
10:15:00	-2.4	-8.48	-1.98	-8.28	-6.30
10:30:00	-2.5	-8.62	-1.97	-8.39	-6.42
10:45:00	-2.33	-8.47	-2.38	-8.50	-6.12
11:00:00	-2.59	-7	-2.45	-8.23	-5.78
11:15:00	-2.67	-8	-2.50	-8.11	-5.62
11:30:00	-2.3	-8.5	-2.48	-8.12	-5.64
11:45:00	-2.54	-7.99	-2.49	-7.99	-5.51
12:00:00	-2.42	-8.42	-2.50	-7.98	-5.48
12:15:00	-2.52	-8.3	-2.49	-8.24	-5.75
12:30:00	-2.59	-8.82	-2.47	-8.41	-5.93
12:45:00	-3.02	-8.27	-2.62	-8.36	-5.74
13:00:00	-2.59	-8.49	-2.63	-8.46	-5.83
13:15:00	-2.65	-8.6	-2.67	-8.50	-5.82
13:30:00	-2.52	-8.64	-2.67	-8.56	-5.89
13:45:00	-2.7	-8.79	-2.70	-8.56	-5.86
14:00:00	-2.77	-8.55	-2.65	-8.61	-5.97
14:15:00	-2.83	-8.62	-2.69	-8.64	-5.95
14:30:00	-3.47	-8.67	-2.86	-8.65	-5.80
14:45:00	-2.82	-8.64	-2.92	-8.65	-5.74
15:00:00	-3.02	-8.84	-2.98	-8.66	-5.68
15:15:00	-2.62	-8.85	-2.95	-8.72	-5.77
15:30:00	-2.97	-8.82	-2.98	-8.76	-5.78
15:45:00	-3.03	-8.96	-2.89	-8.82	-5.93
16:00:00	-3.18	-8.92	-2.96	-8.88	-5.91
16:15:00	-3.03	-8.79	-2.97	-8.87	-5.90
16:30:00	-2.89	-8.89	-3.02	-8.88	-5.86
16:45:00	-3.18	-9.03	-3.06	-8.92	-5.86
17:00:00	-3.01	-8.56	-3.06	-8.84	-5.78
17:15:00	-3.1	-9.15	-3.04	-8.88	-5.84
17:30:00	-2.79	-8.93	-2.99	-8.91	-5.92
17:45:00	-3.01	-9.16	-3.02	-8.97	-5.95
18:00:00	-2.9	-9	-2.96	-8.96	-6.00

## Friday, September 17, 2021

Time	Turbidity (NTU)		Rolling Average Turbidity (NTU)		Difference (NTU)
	Ambient	3rd Street	Ambient	3rd Street	3rd St - Ambient
7:00:00	-2.79	-9.16	-2.86	-9.00	-6.13
7:15:00	-3.14	-9.08	-2.91	-9.06	-6.16
7:30:00	-2.94	-9.16	-2.86	-9.10	-6.24
7:45:00	-2.13	-8.73	-2.78	-9.07	-6.29
8:00:00	-2.74	-9.05	-2.75	-9.04	-6.29
8:15:00	-2	-9.05	-2.59	-9.01	-6.42
8:30:00	-2.84	-8.56	-2.53	-8.91	-6.38
8:45:00	-2.7	-8.66	-2.48	-8.81	-6.33
9:00:00	-2.48	-8.4	-2.55	-8.74	-6.19
9:15:00	-2.47	-7.99	-2.50	-8.53	-6.03
9:30:00	-1.86	-8.05	-2.47	-8.33	-5.86
9:45:00	-2.17	-7.96	-2.34	-8.21	-5.88
10:00:00	-2.41	-8.12	-2.28	-8.10	-5.83
10:15:00	-2.38	-7.79	-2.26	-7.98	-5.72
10:30:00	-2.4	-8.04	-2.24	-7.99	-5.75
10:45:00	-2.66	-8.27	-2.40	-8.04	-5.63
11:00:00	-2.22	-7.96	-2.41	-8.04	-5.62
11:15:00	-1.99	-8.2	-2.33	-8.05	-5.72
11:30:00	-2.31	-8.01	-2.32	-8.10	-5.78
11:45:00	-2.42	-8.41	-2.32	-8.17	-5.85
12:00:00	-2.34	-8.7	-2.26	-8.26	-6.00
12:15:00	-2.47	-8.53	-2.31	-8.37	-6.06
12:30:00	-2.58	-8.64	-2.42	-8.46	-6.03
12:45:00	-2.48	-8.64	-2.46	-8.58	-6.13
13:00:00	-2.57	-8.66	-2.49	-8.63	-6.15
13:15:00	-2.51	-8.68	-2.52	-8.63	-6.11
13:30:00	-3.16	-8.88	-2.66	-8.70	-6.04
13:45:00	-2.48	-8.26	-2.64	-8.62	-5.98
14:00:00	-2.83	-8.95	-2.71	-8.69	-5.98
14:15:00	-3.76	-8.71	-2.95	-8.70	-5.75
14:30:00	-2.71	-8.84	-2.99	-8.73	-5.74
14:45:00	-2.95	-9.05	-2.95	-8.76	-5.82
15:00:00	-2.42	-9.18	-2.93	-8.95	-6.01
15:15:00	-3.2	-8.83	-3.01	-8.92	-5.91
15:30:00	-3.47	-9.08	-2.95	-9.00	-6.05
15:45:00	-2.89	-8.67	-2.99	-8.96	-5.98
16:00:00	-2.67	-9.17	-2.93	-8.99	-6.06
16:15:00	-2.71	-9.03	-2.99	-8.96	-5.97
16:30:00	-2.64	-9.36	-2.88	-9.06	-6.19
16:45:00	-2.83	-9.25	-2.75	-9.10	-6.35
17:00:00	-2.69	-9.38	-2.71	-9.24	-6.53
17:15:00	-3.17	-9.36	-2.81	-9.28	-6.47
17:30:00	-3.17	-9.24	-2.90	-9.32	-6.42
17:45:00	-2.92	-9.26	-2.96	-9.30	-6.34
18:00:00	-2.9	-9.22	-2.97	-9.29	-6.32